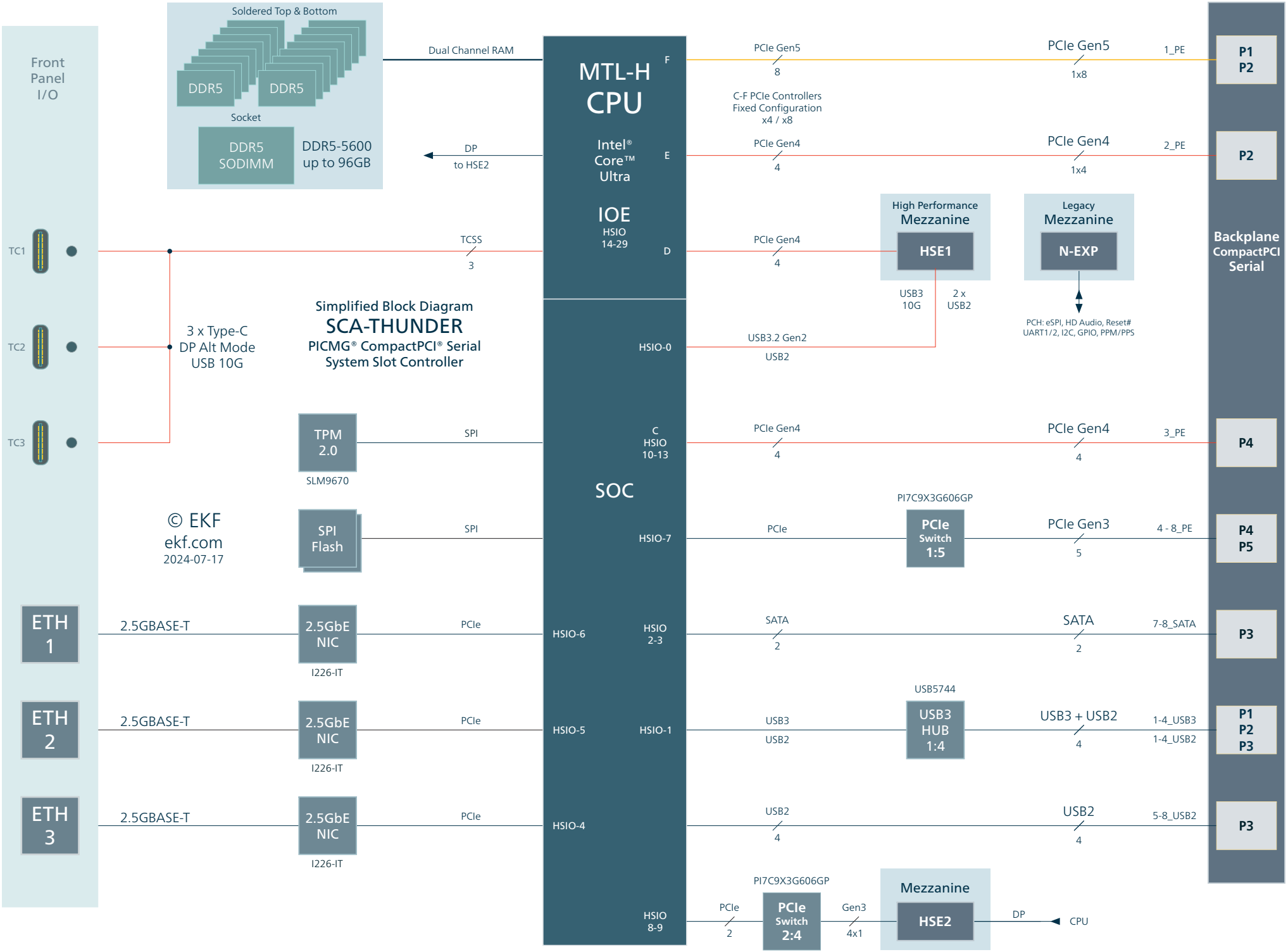
Front Panel I/O
Soldered Top & Bottom
DDR5
DDR5
Socket
DDR5 SODIMM
DDR5-5600 up to 96GB
Dual Channel RAM
DP to HSE2
MTL-H CPU
Intel® Core™ Ultra
IOE
HSIO 14-29
F
E
D
C
HSIO 10-13
SOC
HSIO-0
HSIO-7
HSIO-6
HSIO-5
HSIO-4
HSIO 2-3
HSIO-1
HSIO 8-9
PCIe Gen5
8
C-F PCIe Controllers Fixed Configuration x4 / x8
PCIe Gen4
4
PCIe Gen5
1x8
1_PE
PCIe Gen4
1x4
2_PE
Backplane CompactPCI Serial
P1 P2
P2
P4
P4 P5
P3
P1 P2 P3
P3
TC1
TC2
TC3
TCSS
3
3 x Type-C DP Alt Mode USB 10G
Simplified Block Diagram
SCA-THUNDER
PICMG® CompactPCI® Serial System Slot Controller
High Performance Mezzanine
HSE1
USB3 10G
2 x USB2
Legacy Mezzanine
N-EXP
PCH: eSPI, HD Audio, Reset# UART1/2, I2C, GPIO, PPM/PPS
USB3.2 Gen2
USB2
TPM 2.0
SLM9670
SPI
PCIe Gen4
4
PCIe Gen4
4
3_PE
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2024-07-17
SPI Flash
SPI
PCIe
PI7C9X3G606GP
PCIe Switch 1:5
PCIe Gen3
5
4 - 8_PE
ETH 1
2.5GBASE-T
2.5GbE NIC
I226-IT
PCIe
SATA
2
SATA
2
7-8_SATA
ETH 2
2.5GBASE-T
2.5GbE NIC
I226-IT
PCIe
USB3
USB2
USB5744
USB3 HUB 1:4
USB3 + USB2
4
1-4_USB3
1-4_USB2
ETH 3
2.5GBASE-T
2.5GbE NIC
I226-IT
PCIe
USB2
4
USB2
4
5-8_USB2
PCIe
2
PI7C9X3G606GP
PCIe Switch 2:4
Gen3
4x1
Mezzanine
HSE2
DP
CPU